

Special Issue

N-Terminal Protein Modifications and Human Diseases

Message from the Guest Editor

N-terminal protein modifications include acetylation of the initiator methionine, removal of the initiator methionine followed by acetylation, myristoylation, or methylation of the newly exposed N-terminal residue. These modifications can change the chemical nature of a protein at its N-terminus, thereby affecting its stability, cellular localization, and/or its biological function. Changes in N-terminal modifications play critical roles in human diseases. By synthesizing research on N-terminal protein modifications, further discoveries regarding the cellular pathways underlying human disease can be made and new approaches to treat a variety of human diseases can be further explored. This special issue will include research on the molecular mechanisms underlying the biological activities of the enzymes involved in N-terminal protein modifications, the crosstalk between these modification processes, new approaches for identifying and quantifying modifications, the links between modification processes with human disease outcomes, and innovative strategies for selectively interfering with these processes.

Guest Editor

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